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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,479	04/09/2007	Gagik Barkhordarian	30572/41894	3323
4743	7590	04/28/2009		
MARSHALL, GERSTEIN & BORUN LLP			EXAMINER	
233 SOUTH WACKER DRIVE			JOHNSON, KEVIN M	
6300 SEARS TOWER				
CHICAGO, IL 60606-6357			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

Response to Amendment

1. The claim amendments filed 4/16/2009 have not been entered as they raise new issues that require further consideration. Specifically the new requirement that the organometallic catalyst contain Zr or V was not previously considered.

Response to Arguments

2. Applicant's arguments filed 4/16/2009 have been fully considered but they are not persuasive.

The arguments directed to the use of an organometallic compound containing Zr or V in the material are directed to limitations found in the non-entered amended claims, and therefor are considered moot.

The argument that titanium isopropoxide does not have a nanocrystalline form is not persuasive. Titanium isopropoxide is utilized in the examples provided in the instant specification (tetraisopropyl orthotitanate), and the materials produced therewith exhibit all the properties that are associated with a nanocrystalline catalyst structure disclosed in the instant specification. Additionally, a solid crystalline form of titanium isopropoxide is known, commonly referred to as titanium tetramethoxide ($Ti(OCH_3)_4$). Titanium isopropoxide is available in liquid form, but it is also known to exist in a crystalline state.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN M. JOHNSON whose telephone number is

(571)270-3584. The examiner can normally be reached on Monday-Friday 7:30 AM to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J.A. LORENGO/
Supervisory Patent Examiner, Art Unit 1793